

**ABSTRACT****Automatic Repetition Request Mechanism in a Radio Access Network**

- A method of handling the transmission of RLC PDUs from a Radio Access
- 5 Network (RAN) of a mobile telecommunications system to User Equipment (UE). At a Gateway (GW) of the UTRAN, RLC SDUs are segmented into RLC PDUs for transmission to one or more Base Stations (BSs) of a set of BSs belonging to a handover link set, and RLC PDUs received from one or more of those BSs into RLC SDUs are combined for transmission to a core network of the system. At the or each said BS,
- 10 RLC PDUs received from the GW and or the UE are buffered. An ARQ mechanism is implemented at the or each BS to facilitate reliable transmission of RLC PDUs between the UE and the GW.

Figure 2

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